

What is claimed is:

1. A cellular communication system comprising
a cell station which provides a
communication service for a personal station,
said cell station executing continuous monitoring
5 of an interfering wave during a period and
producing interference monitor data
representative of a property of said interfering
wave; and
a maintenance terminal which produces an
10 interference profile based on said property.

2. The cellular communication system according
to claim 1, wherein said cell station includes an
antenna, and both of said communication service
and said continuous monitoring are achieved
5 through said antenna.

3. The cellular communication system according
to claim 1, wherein said cell station includes a
monitoring unit which continuously monitors an
electric field intensity of said interfering wave
5 during said period, and
said property includes said electric field
intensity.

4. The cellular communication system according

to claim 1, wherein said maintenance terminal
sends first and second requests, and
said cell station provides said
5 communication service in response to said first
request, and monitors said interfering wave in
response to said second request.

5. The cellular communication system according
to claim 1, wherein said maintenance terminal
displays said interference profile.

6. The cellular communication system according
to claim 1, wherein said communication service is
executed based on a TDMA system protocol, and
said period includes a slot determined by
5 said TDMA system protocol.

7. The cellular communication system according
to claim 6, wherein said cell station checks
whether said slot is used for providing said
communication service, and continuously monitors
5 said interfering wave during said slot when said
slot is not used for providing said communication
service.

8. A cellular communication system comprising:
a plurality of cell stations which provide

a communication service for a personal station,
each of said cell stations continuously

5 monitoring an interfering wave during a period to
produce interference monitor data representative
of an electric field intensity of said
interfering wave; and

a maintenance terminal which receives said
10 interference monitor data from each of said cell
stations and determines an incoming direction of
said interfering wave based on said interference
monitor data.

9. A method of operating a cellular
communication system comprising:

providing a communication service for a
personal station by a cell station;

5 continuously monitoring of an interfering
wave during a period by said cell station;

producing an interference monitor data
representative of a property of said interfering
wave; and

10 producing an interference profile based on
said property.

10. The method according to claim 9, wherein
both of providing said communication service and
said continuous monitoring are achieved through

the same antenna included in said cell station.

11. The method according to claim 9, wherein
said monitoring includes continuously monitoring
an electric field intensity of said interfering
wave during said period, and said property
5 includes said electric field intensity.

12. The method according to claim 9, further
comprising receiving a request by a user
interface, wherein said providing said
communication service and said continuously
5 monitoring said interfering wave are exclusively
executed in response to said request.

13. The method according to claim 9, wherein
said communication service is executed based on a
TDMA system protocol, and said period includes a
slot determined by said TDMA system protocol.

14. The method according to claim 13, further
comprising checking whether said slot is used for
providing said communication service, wherein
said continuously monitoring is executed during
5 said slot when said slot is not used for
providing said communication service.

15. A method of operating a cellular communication system comprising:

providing a communication service for a personal station by a plurality of cell stations;

5 continuously monitoring of an interfering wave during a period by said plurality of cell stations cell stations;

producing interference monitor data representative of electric field intensities of 10 said interfering wave by each of said plurality of cell stations cell stations; and

determining an incoming direction of said interfering wave based on said interference monitor data.